
**Ships and marine technology —
Toughened safety glass panes for
rectangular windows and side scuttles —
Punch method of non-destructive
strength testing**

*Navires et technologie — Verres de sécurité trempés pour hublots et
fenêtres rectangulaires de navires — Méthode du poinçon pour les
essais non destructifs de résistance*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 614 was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 8, *Ship design*.

This fourth edition cancels and replaces the third edition (ISO 614:1989), which has been technically revised.

Ships and marine technology — Toughened safety glass panes for rectangular windows and side scuttles — Punch method of non-destructive strength testing

1 Scope

This International Standard specifies a method for the non-destructive breaking reliability testing of toughened safety glass panes for windows and side scuttles complying with ISO 21005.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 48, *Rubber, vulcanized or thermoplastic — Determination of hardness (hardness between 10 IRHD and 100 IRHD)*

ISO 21005, *Ships and marine technology — Thermally toughened safety-glass panes for windows and side scuttles*

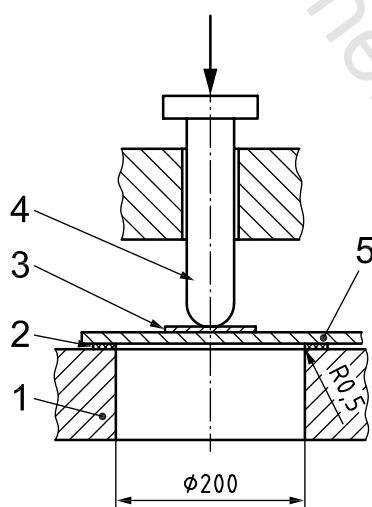
3 Test apparatus

The apparatus shall be of the appropriate form shown in Figure 1, as follows:

- a) Form A: for all glass panes with a size ≥ 250 mm;
- b) Form B: for all glass panes with a size > 200 mm and < 250 mm.

The test apparatus shall also meet the requirements of Table 1.

Dimensions in millimetres



a) Form A